

A. CLASSIFICATION OF SUBJECT MATTER

G05B19/418 H05K13/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

G05B H05K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 378 200 B1 (LIM KA TIEK ET AL) 30 April 2002 (2002-04-30)	13
Y	the whole document	1,9-12, 19,22, 24,25
Y	US 5 177 688 A (RENTSCHLER ET AL) 5 January 1993 (1993-01-05) column 3, line 24 - column 9, line 12	1,9-12, 24,25
Y	US 6 104 965 A (LIM ET AL) 15 August 2000 (2000-08-15) the whole document	1,9-12, 24,25
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☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

16 February 2006

Date of mailing of the international search report

28.02.2006

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	PATENT ABSTRACTS OF JAPAN vol. 016, no. 521 (E-1285), 27 October 1992 (1992-10-27) & JP 04 196296 A (MATSUSHITA ELECTRIC IND CO LTD), 16 July 1992 (1992-07-16) abstract -----	1
A	EP 0 400 624 A (KABUSHIKI KAISHA TOSHIBA) 5 December 1990 (1990-12-05) abstract -----	4
Y	US 2002/143423 A1 (HUBER ROBERT ET AL) 3 October 2002 (2002-10-03) the whole document -----	19
Y	US 5 584 118 A (FURUKAWA ET AL) 17 December 1996 (1996-12-17) the whole document -----	22
A	EP 0 987 613 A (BASF AKTIENGESELLSCHAFT) 22 March 2000 (2000-03-22) the whole document -----	13-23
A	US 4 580 207 A (ARAI ET AL) 1 April 1986 (1986-04-01) the whole document -----	13-23

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/JP2005/009588

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6378200	B1	30-04-2002	NONE	
US 5177688	A	05-01-1993	NONE	
US 6104965	A	15-08-2000	NONE	
JP 04196296	A	16-07-1992	NONE	
EP 0400624	A	05-12-1990	DE 69013573 D1 DE 69013573 T2 US 5055755 A	01-12-1994 16-03-1995 08-10-1991
US 2002143423	A1	03-10-2002	AU 7320501 A DE 10196412 T0 WO 0205044 A2	21-01-2002 22-05-2003 17-01-2002
US 5584118	A	17-12-1996	NONE	
EP 0987613	A	22-03-2000	AT 229662 T CN 1253851 A DE 19842482 A1 JP 2000284809 A	15-12-2002 24-05-2000 23-03-2000 13-10-2000
US 4580207	A	01-04-1986	DE 3146342 A1 JP 1420563 C JP 57089106 A JP 62025202 B	16-06-1982 14-01-1988 03-06-1982 02-06-1987